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GEN V

AKO TO VIDÍME MY...

Dott. Andrej Aleksiev, PhD.

WELCOME TO THE FUTURE OF
CYBER SECURITY

POWERED BY  CHECK POINT
INFINITY

CLOUD • MOBILE • THREAT PREVENTION

CYBER SECURITY TODAY

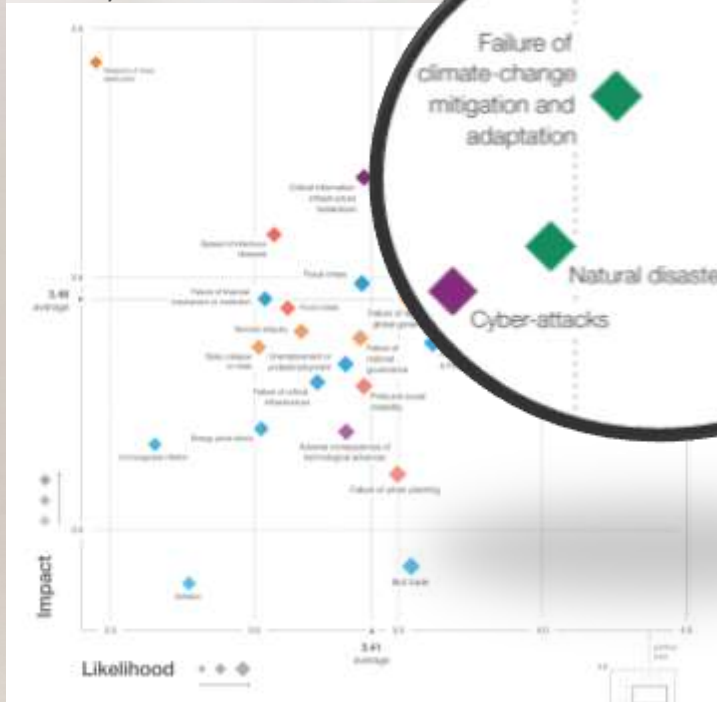


....Cyber Security – Global Challenge



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World Economic Forum –
Global Risk Report
January 2019



Cyber Attacks –
#4 Global Risks
#1 Man Made Risk

46% of all companies were affected
36% of all consumers globally lost
data



WHY?



#1 Detection mentality



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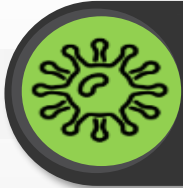
A conceptual image showing a wireframe hand holding a magnifying glass over a laptop keyboard. The hand is composed of a network of blue and red lines, symbolizing digital connectivity and security. The magnifying glass is focused on the keyboard, which is partially visible in the background.

DETECTION!

If you accept detection
you've already lost

Generations of Attacks and Protections

Gen I



Virus

Late 1980s –
PC attacks - standalone

The Anti Virus

Gen II



Networks

Mid 1990s –
Attacks from the internet

The Firewall

Gen III



Applications

Early 2000s -
Exploiting vulnerabilities
in applications

Intrusion
Prevention (IPS)

Gen IV



Payload

2010 -
Polymorphic Content

Behavioral
Analysis

GEN V ATTACKS

Large scale (across country and industry)

Multi-vector (network, cloud, mobile)

Commercial & Government Grade Attack tools

GEN V VULNERABILITIES

16,555 vulnerabilities found in 2018 (up from 6,447 in 2016)

736 Mobile (iOS & Android) vulnerabilities in 2018

Cloud Infrastructure is the weakest link

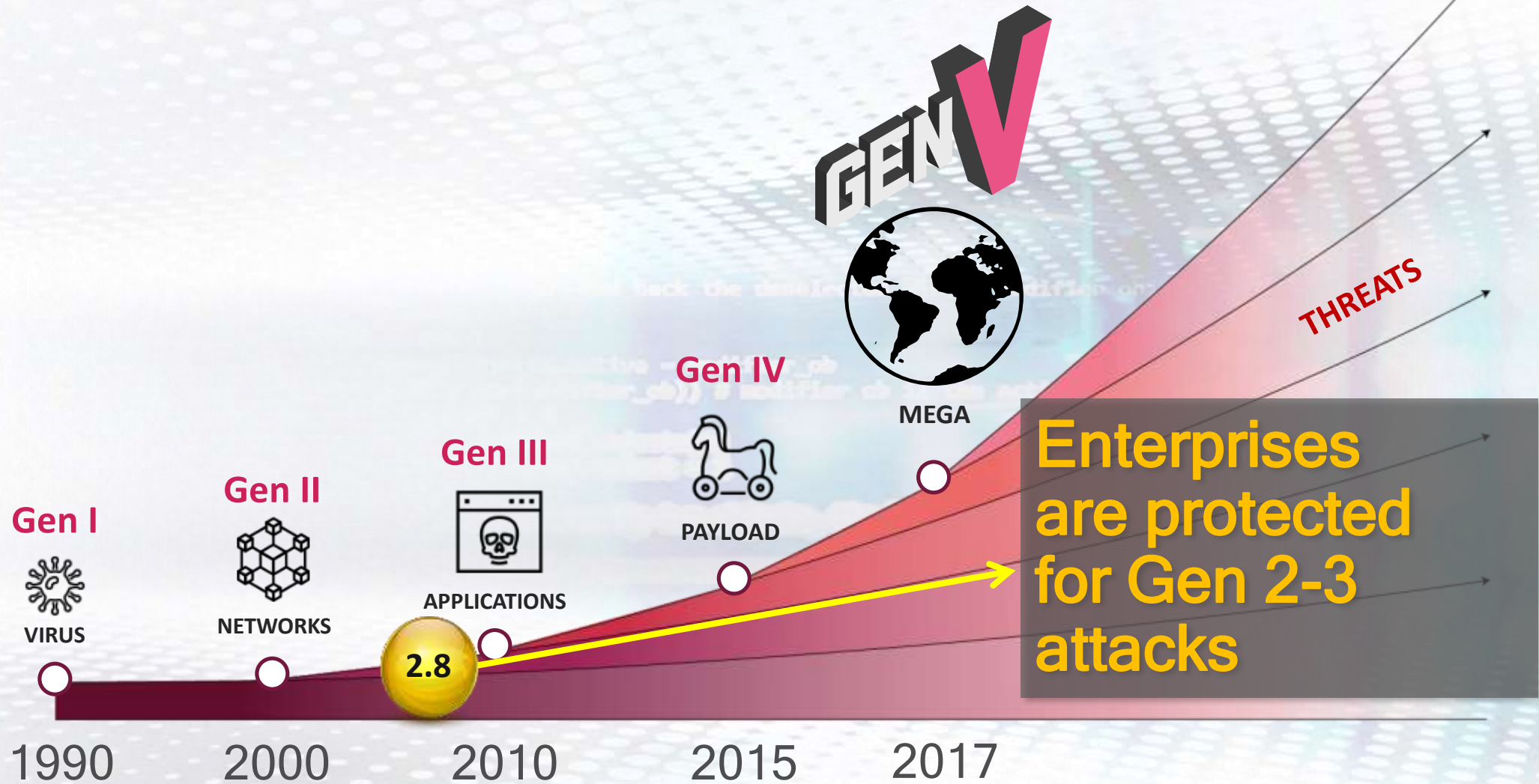


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#2 – Not protected to current level attacks



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#3 Too much complexity



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Too many different solutions

	2007	2018
Threat Actors	<50	>1,000
Threat Types	<50	>1,000,000
Alerts / Day (Average Per Firm)	<1,000	>1,000,000
Security Vendors	<100	>2,600

Source: Former CIA director Gen (Ret) David H. Petraeus, CyberTech, Jan 2018

Solutions do not cooperate –
no shared intelligence or architecture

Complexity - Preventing Infected Files



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9 ATTACK VECTORS

8 SECURITY TECHNOLOGIES

	Mobile Devices	Web Downloads	Corporate Email	Shared Folder	End Point Device	FTP	Messaging Apps.	SaaS Apps	Private Email
Anti Virus	Skull	Skull	Skull	Skull	Skull	Skull	Skull	Skull	Skull
Sandbox	Skull	Skull	Skull	Skull	Skull	Skull	Skull	Skull	Skull
File Extraction	Skull	Skull	Skull	Skull	Skull	Skull	Skull	Skull	Skull
Static Analysis	Skull	Skull	Skull	Skull	Skull	Skull	Skull	Skull	Skull
DLP	Skull	Skull	Skull	Skull	Skull	Skull	Skull	Skull	Skull
SSL Inspection	Skull	Skull	Skull	Skull	Skull	Skull	Skull	Skull	Skull
Anti Ransomware	Skull	Skull	Skull	Skull	Skull	Skull	Skull	Skull	Skull
Machine learning	Skull	Skull	Skull	Skull	Skull	Skull	Skull	Skull	Skull



This is a
8 problem
complexity
= 72
Technologies

Complexity – Broader View

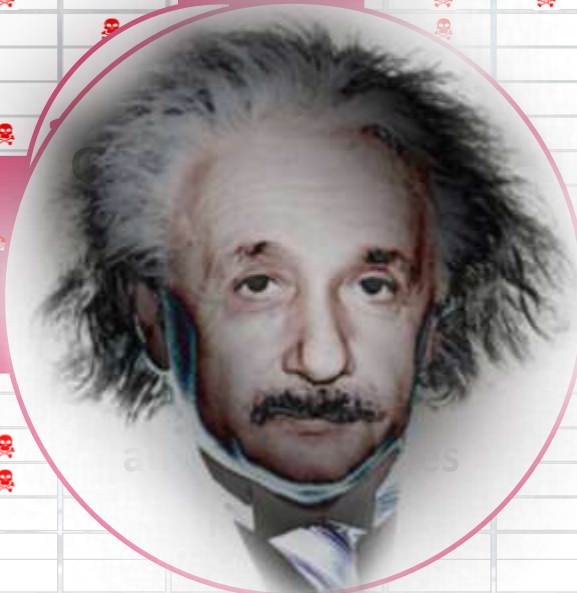


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16 ATTACK VECTORS

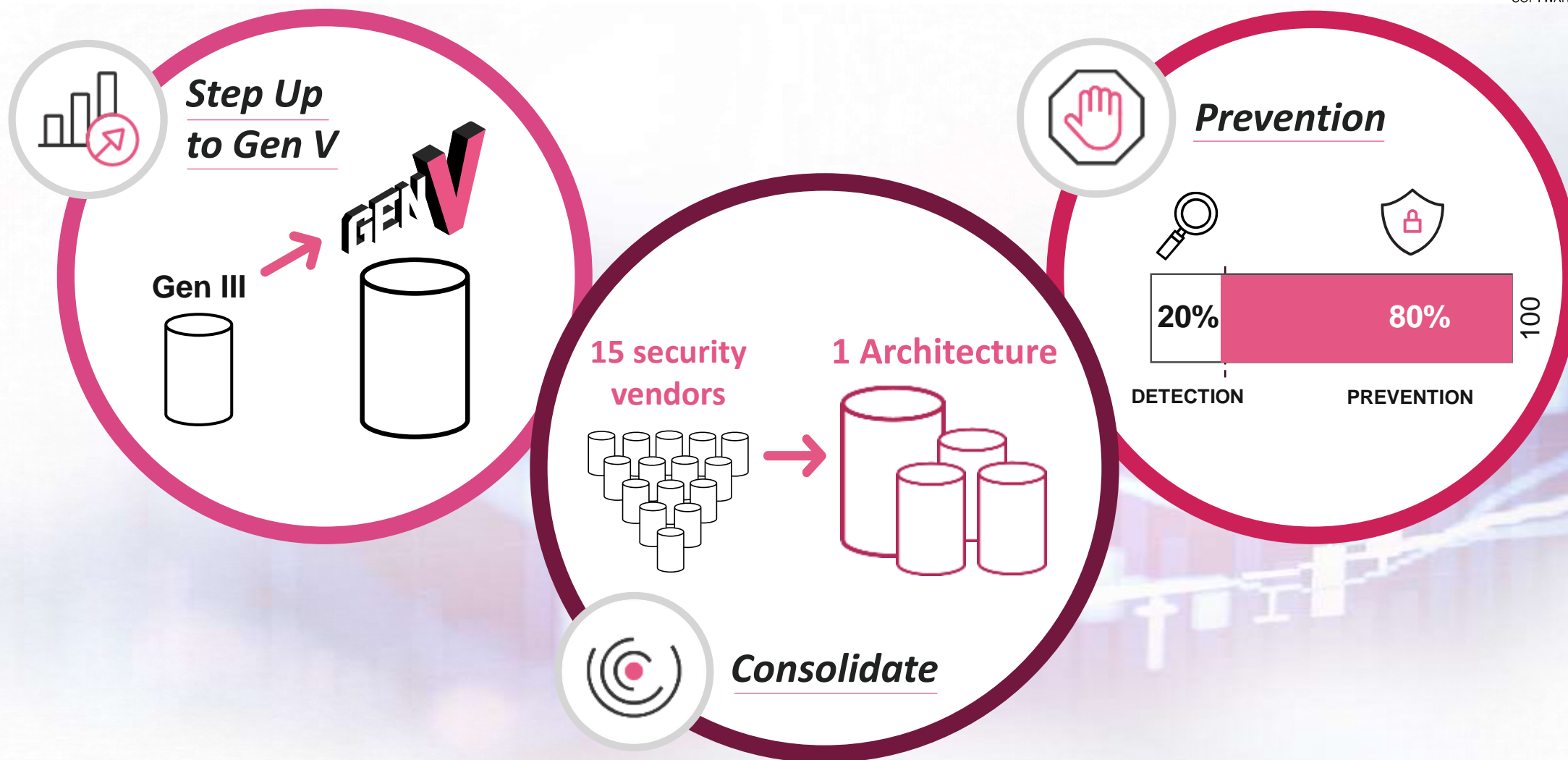
26 SECURITY TECHNOLOGIES

	Business Email	Perimeter	End Point	Mobile	Web Browsing	Data Center	Cloud IaaS	Cloud SaaS	Messaging Apps	Branch Office	Web Server	IoT	USB Storage	Database	FTP/ File Share	Private Email	Vector 1	Vector 2	Vector 3
Firewall																			
Identity Access Management																			
Remote Access																			
DDOS																			
Site to Site IPSec																			
URLF																			
App Control																			
IPS																			
WAP																			
Anti Virus																			
Anti Bot																			
File Emulation & Anti-Exploit																			
File Extraction																			
Anti Ransomware																			
DLP																			
Doc Security																			
Phishing																			
Account Take Over																			
Man in the Middle																			
Password Leak																			
Micro Segmentation																			
SSL & TLS Inspection																			
Compliance																			
Application Scan																			
Disk & Media Encryption																			
Forensics																			
Future 1																			
Future 2																			
Future 3																			



The background is a complex digital-themed collage. A large, blue-toned fingerprint is the central focus. To its right, a faint profile of a man's face is visible. The entire scene is overlaid with a red tint and scattered binary digits (0s and 1s).

**HOW CAN
WE ADDRESS
THIS TREND?**



Step Up Your Security Level from Gen III to Gen V



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Gen III



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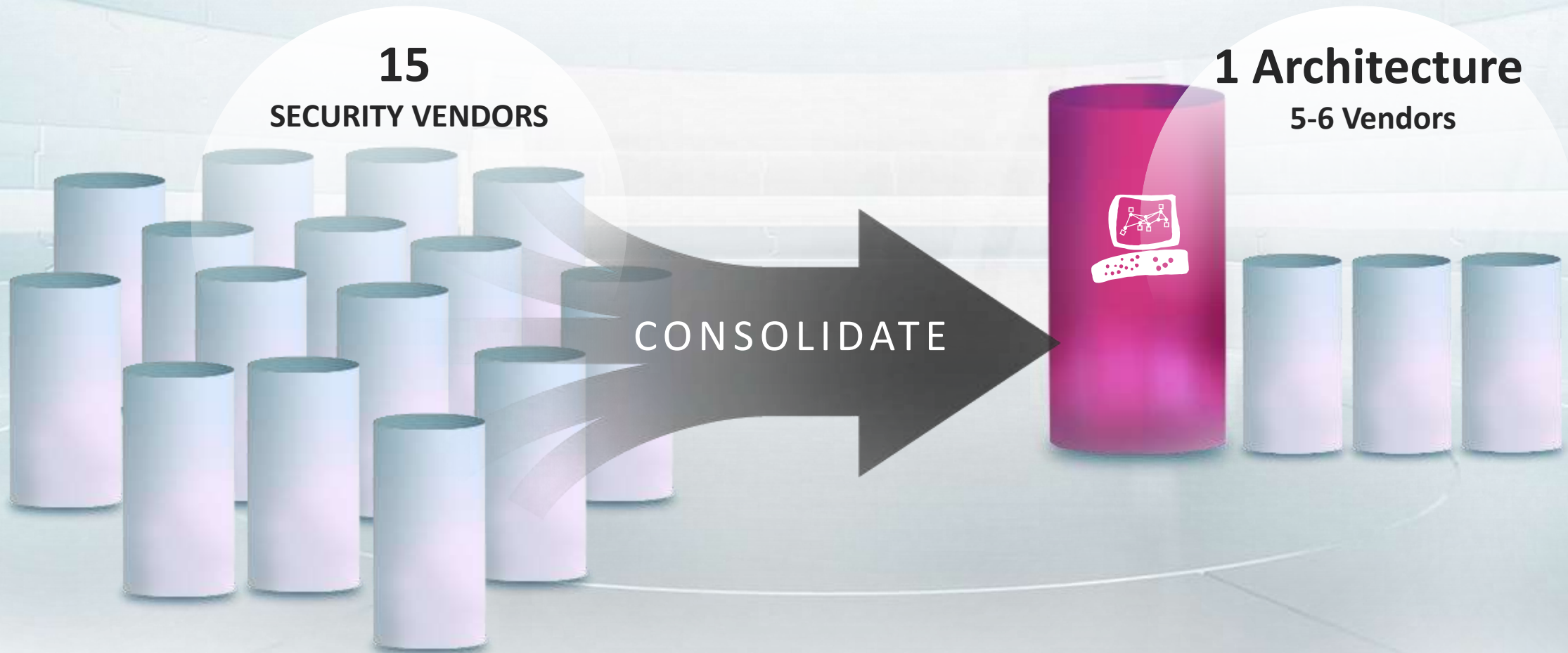
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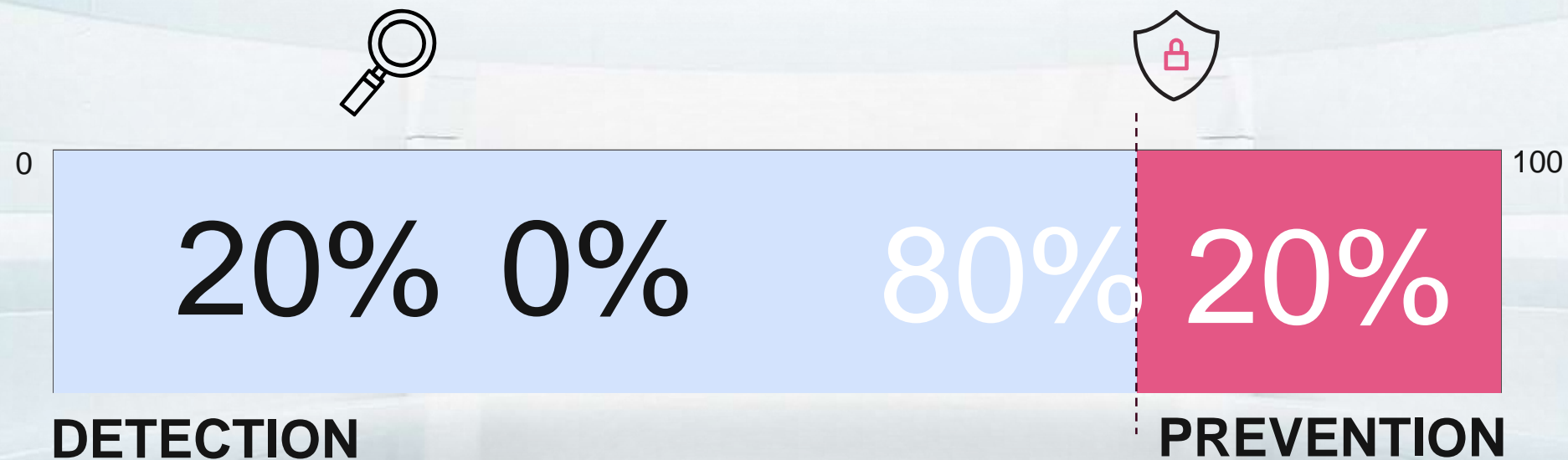
Simplify and Consolidate your Security



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New Investment in Cyber Security



WHAT'S

NEXT?

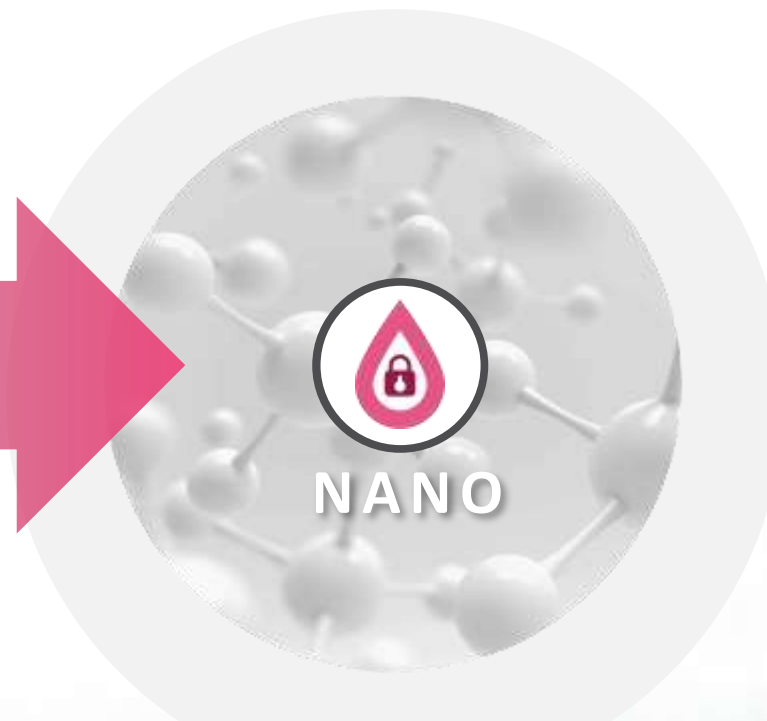




Tightly coupled
monolithic Security

Security Service
and Delivery

BIG: Multi-core,
multi-gigabyte



Decouple Security Delivery and Service
Nano-Agent – Everywhere – Cloud, IoT

Future: Cloud Security Architecture

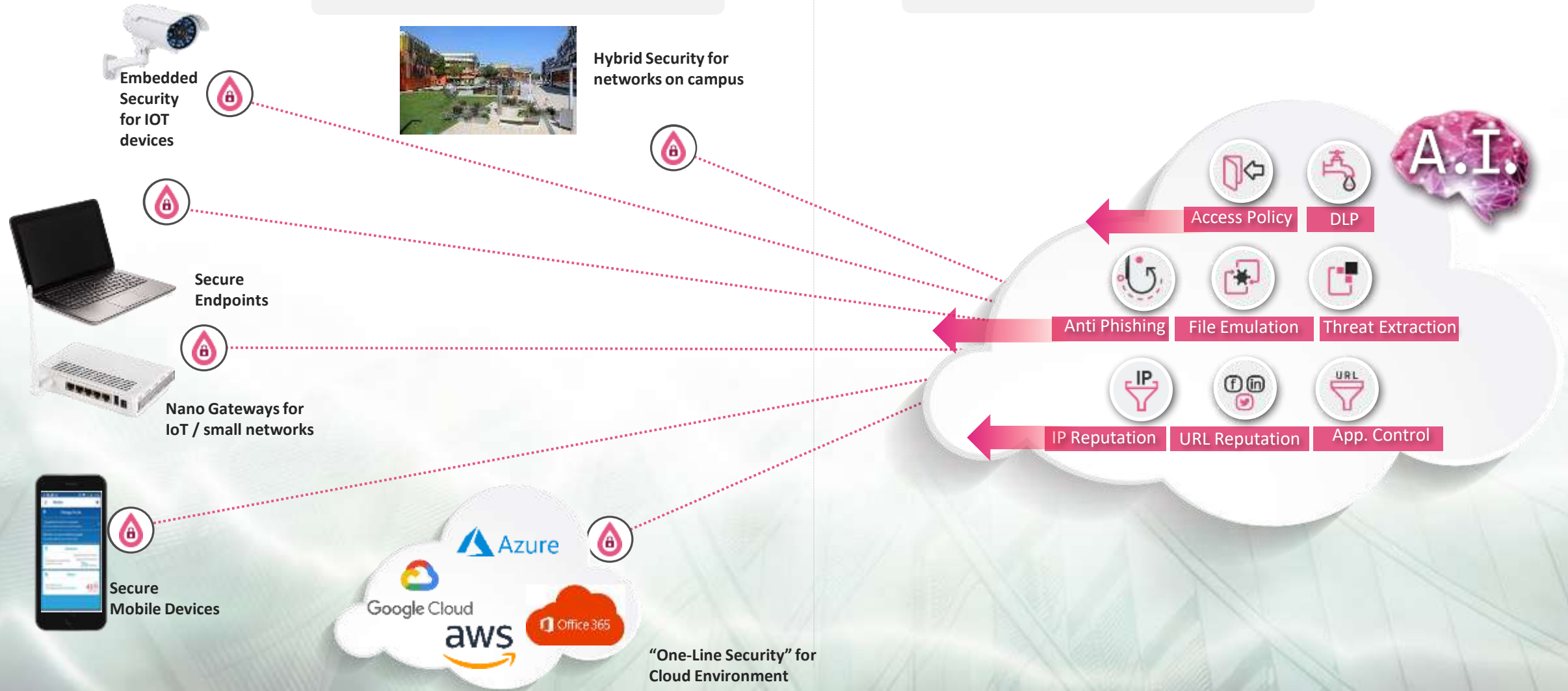
Hybrid/Cloud Delivered Security Services and Security Delivery



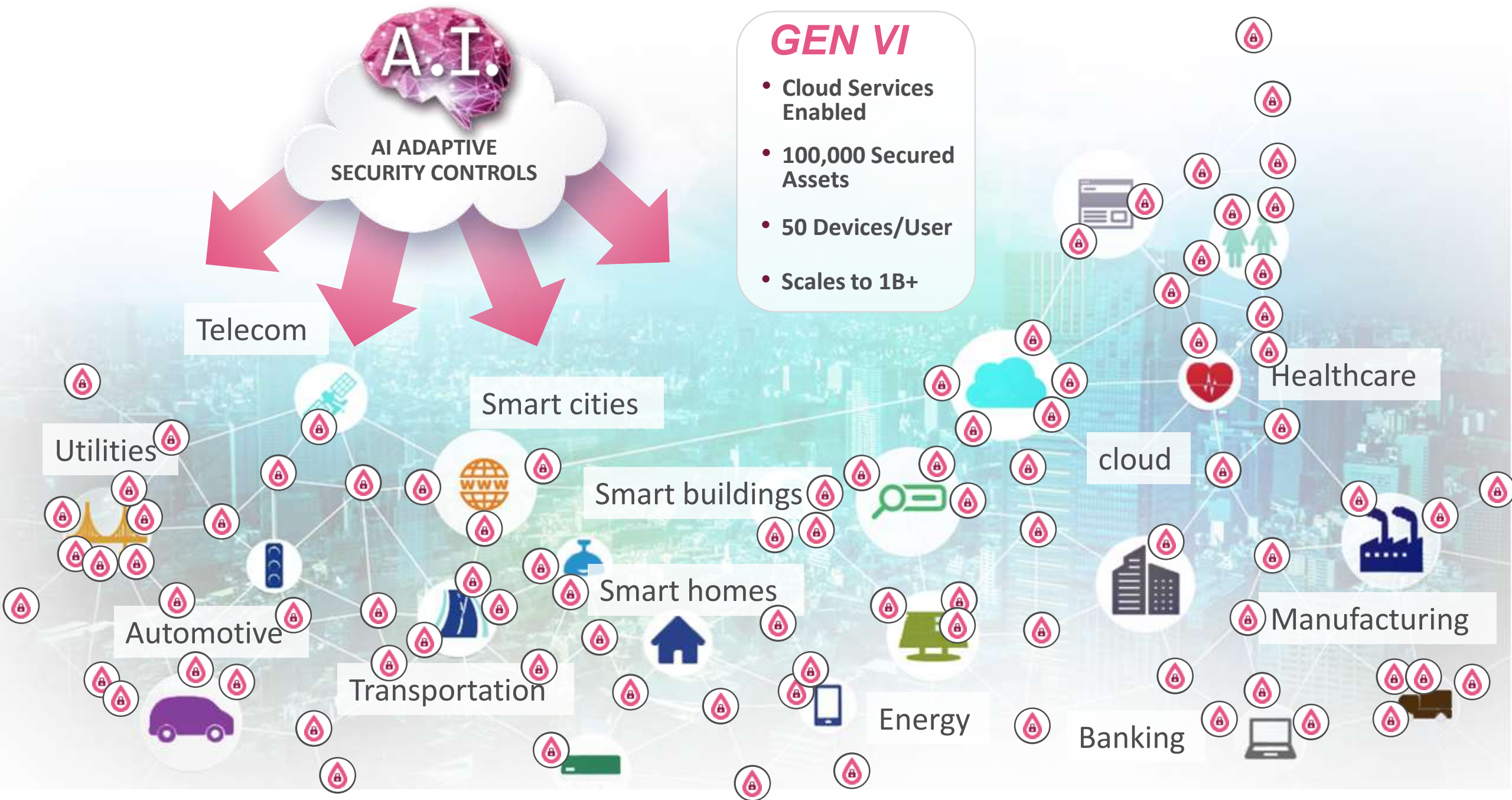
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SECURITY DELIVERY

SECURITY SERVICES



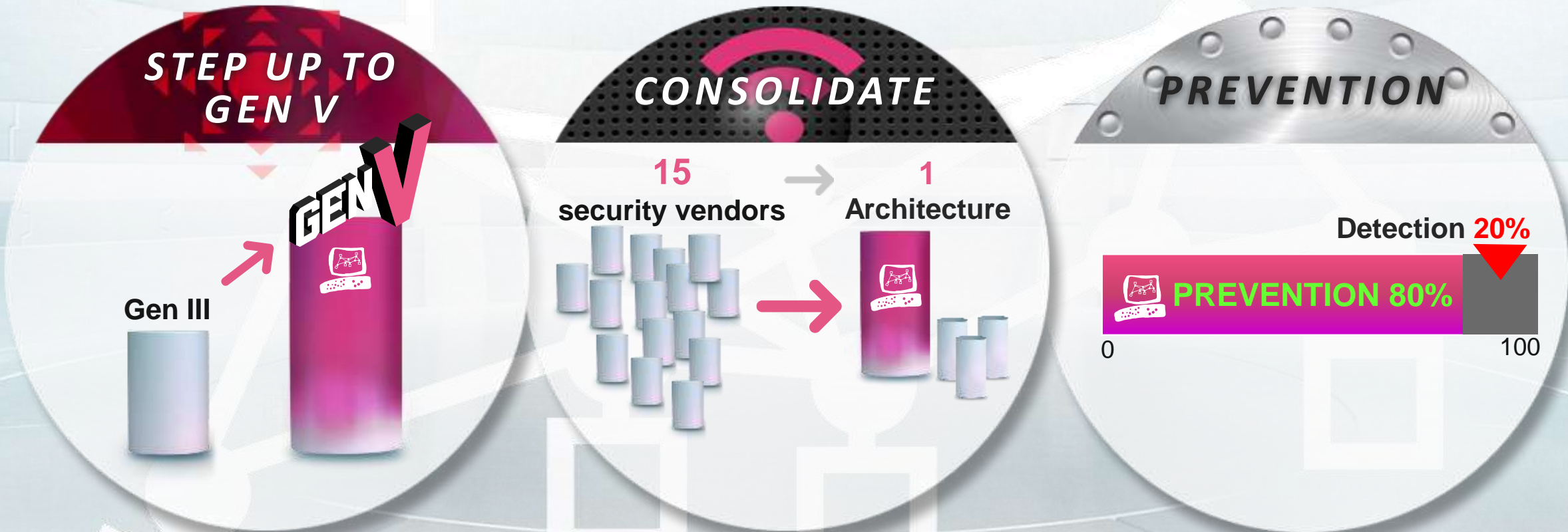
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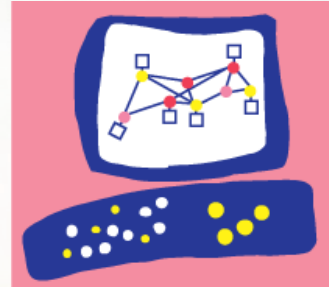


TO SUMMARIZE...

A man and a woman are standing in front of a large digital display. The man is on the left, wearing a dark jacket over a black shirt. The woman is on the right, wearing a light-colored top. The display shows a large, colorful fingerprint scan in the center, with binary code (0s and 1s) and some text visible in the background. The overall scene has a red and purple tint.

Summary





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